ELMO

HC7501

1/2" Color CCD Camera with Frame Accumulation

(with an optional lens)

Industrial / OEM High Resolution Camera Module

OVERVIEW

The HC7501 is designed to emulate the performance of a 3CCD camera with a single CCD saving significant cost.

The 1/2" CCD sensor is compatible with most all complimentary optics especially those used with medical/scientific and industrial microscopes.

The frame accumulation feature of the HC7501 makes very low light image capture possible down to texas red in confocal region.

All the controls are accessible by means of an on screen menu making the camera very user friendly.

The Y/C 480 TV(H) lines resolution coupled with a 1.4 lx sensitivity in standard mode (0.0225 lx in automatic accumulation mode) affords video of the highest quality attainable from a single CCD. There is complete versatility with shutter control both automatic and manual plus backlight compensation with selectable zones.

FEATURES

- 1/2" IT HAD Color CCD
- 768 (H) x 494 (V) pixels
- 480 TV lines (H) resolution
- 50dB S/N
- Frame accumulation feature
- VBS and Y/C outputs
- Digital signal processing
- External sync
- On screen menu display
- Backlight compensation with selectable zones
- Accepts video or DC type auto iris lenses
- Accepts both CS/C mount lenses

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Visualizing technology since 1921

1/2" Color CCD Camera with Frame Accumulation
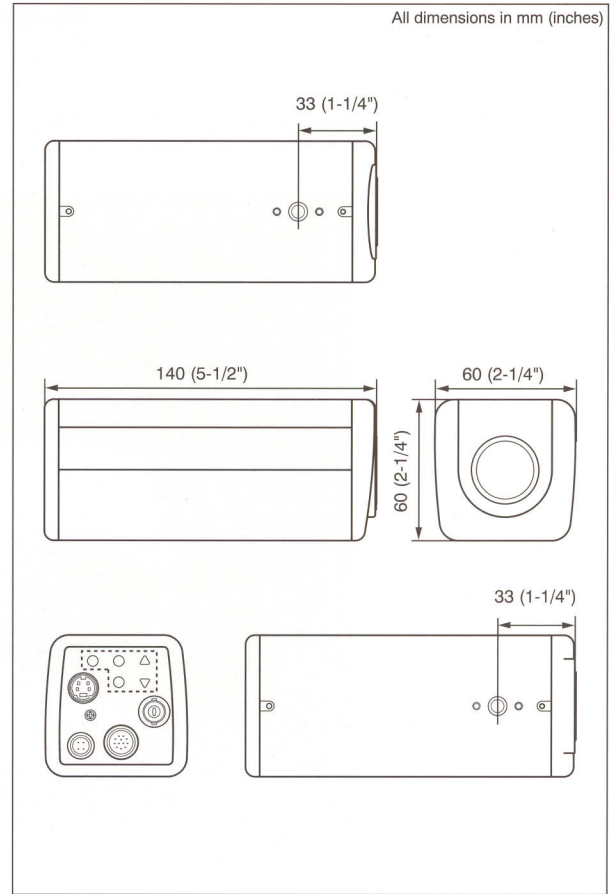## Industrial / OEM High Resolution Camera Module for Industrial / Medical / Scientific Use
HC7501

SPECIFICATIONS

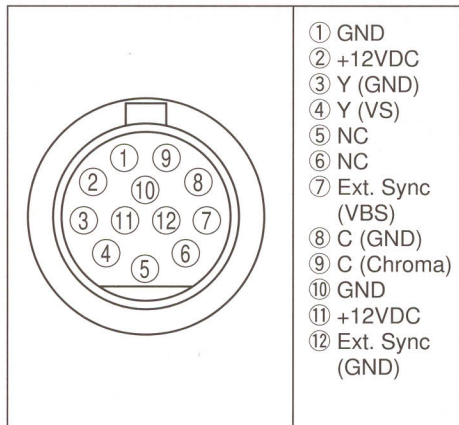|	
Image Sensor	1/2" Interline transfer Color CCD
Effective Pixels	768 (H) x 494 (V)
TV System	NTSC 2:1 Interlaced
Synshronization	Internal / External with automatic change
Resolution	480TVL (H), 350TVL (V)
S/N Ratio	50dB at AGC OFF
Min. Sensitivity	1.4 lx @ F1.2
AGC	18dB, 12dB, 6dB & OFF
White Balance	ATW/Manual/Push-set
Backlight Compensation	Built-in with selectable zones
Electronic Shutter	1/60, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000sec
Automatic Shutter	Built-in 1/60 - 1/10,000sec linear
Frame Accumulation	Provided. Max.64 frame in auto mode
On Screen Display Menu	Provided
Video Output	VBS: 1.0Vp-p 75Ω 12P connector and BNC on the back panel
	Y/C: 12P connector and S-Video terminal on the back panel
External Sync. Input	VBS 1.0Vp-p 75Ω 12P connector on the back panel
Auto Iris	DC/Video, 4P connector on side panel
Lens Mount	CS Mount C / Mount with supplied 5mm ring
Power Source	DC12V (DC11V - 16V) Either 4P or 12P connector on back panel
Dimensions HxHxD	60 x 60 x 140mm (2-1/4 x 2-1/4 x 5-1/2")
Weight	410grm (14.5oz)
Attachments	Owner's manual, Warranty card, 5mm ring, 12P connector, 4P connector for power, 4P DIN for Y/C & 4P connector for auto iris

Note : Design and specfications are subject to change without prior notice.
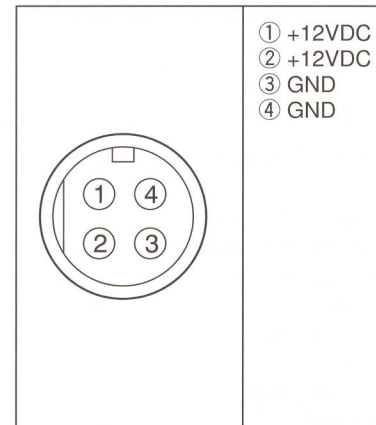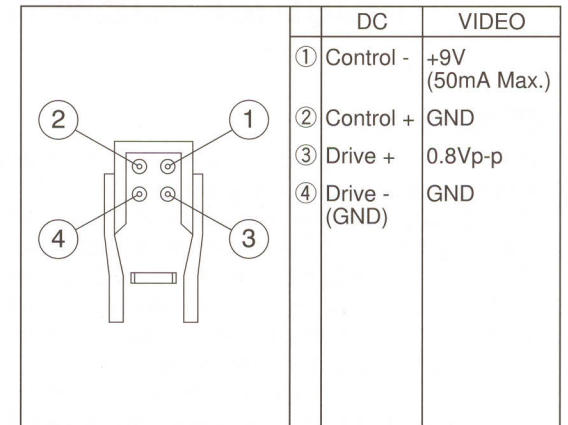Dimensions and weight are approximate.

PROFILE

All dimensions in mm (inches)

View of the connectors

12P receptacle

① GND
② +12VDC
③ Y (GND)
④ Y (VS)
⑤ NC
⑥ NC
⑦ Ext. Sync (VBS)
⑧ C (GND)
⑨ C (Chroma)
⑩ GND
⑪ +12VDC
⑫ Ext. Sync (GND)

4P receptacle

① +12VDC
② +12VDC
③ GND
④ GND

4P receptacle for auto iris

		DC	VIDEO
①	Control -		+9V (50mA Max.)
②	Control +		GND
③	Drive +		0.8Vp-p
④	Drive - (GND)		GND